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gcagctgctg gaccagcttc ccaacaacaa gctcctcacc accaagatcg ggctgctcag    840

cacccttcgg ggacgggcac gggccatgag caaggccagc aaggtgccgg gggggggtcca    900

ggccaggctg gaaaaggacg cagcagcgcc cgccctggag gacctcccgt ggacaagccc    960

aggatacctc aggccacaga gggtcctgag aatggaagag tttttcccag agacctaccg   1020

cctggacctc aaacacgaga gagaggcctt tttcaccttg tttgatgaaa cccagatatg   1080

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cagcgacctc ggcggccact tgaccaacca gttcatgcag aagaagagcc ctctgtacat   1440

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gttctggaag gcccggggcc tcgccaagga ctgggtcttc accaccctca agaagcggat   1560

gcagcagatc atggcccact gctttctggc cgccaagccc aagctggact gcaagctggg   1620

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ggagatgaat tctaacccag ccctgcacac caactgcgag gtcctgaagg aggtcatccc   1740

aggtgtggtc atcgagaccc tggacctggt gctcgagacc ttccggaaga gcctgcgcgg   1800

ccagaagatg ttgcctctgc tgtcccagcg ccgcttcgtg ctcctgcaca acggtgaggc   1860

cgacccgcgg ccgcacctgg ggggctcgtg cagcctccgc cgctggccgc ccctgcccac   1920

ccgccaggcc aagtcctccg ggccacccat gccgcatgcc ccagaccagc cggggcgcccg   1980

caggcctgcg ccacctccct tggtgccgca gcgtccccgg ccacccggcc ccgacctgga   2040

cagcgcccac gatggggagc cccaggcccc gggcacggag cagtcgggca caggcaacag   2100

gcacccggcg caagagcctt ccccggggac agccaaggag gaacgcgagg agcctgagaa   2160

cgcgaggccc taggggcagc cacccgcgcc cagcgccccg cgccccgcgc cccagccgtg   2220

ctgcctgccc tcagggacct ataaagccca ctttgctac                          2259
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<210> 1455
<211> 2067
<212> DNA
<213> Homo sapiens

<400> 1455
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tcctggcggc cccgggaggg cgatgccaag tttcgctctt gttccctggg ctgcagtgca    120

gtggcaccat ctcggctcac cgcaacctcc gcctcccaag ttcaagcgat tctcctgcct    180
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cagcctcccc agtatctggg attacaggta tgcgccacca cgcccggcta attttgtatt    240

tttagtagag acggggtttc tccatgttgg tcaggctggt cttgaactcc cgacctcagg    300

tgattctccc gcctcggcct cccaaagtac tgggattaca ggcgtgagcc actgcgcctg    360

gcctactaat actaggtttt attccgggcc cttcacagtt aatgttggag gcccctggag    420

gatggccaca cctgggctat ttgcagaagc ctggacagca cagcaggcag agttaaagca    480

gttaaggcag tatcagctga agggccaccc agctgtgcgt gtgcccaggc tccaagaata    540

aggaggttgg ggggcagtcc taagaaagga agtcattacc tatcggcaac ccaggagcag    600

acgctggcat aacggcgcac acacagtaaa ggtcagaggt tcttcttaga atagtcctta    660

ggtgttagtc aaacccatgc cctgccccaa ggagttcatt cattcattca ctcattcatt    720

cactcactca ctcactggtt ctgtttattc actcatttct ctatcacata tccatttatt    780

gtcattcacc cacttattta ctcatacatt cattcatttg ctcatcaatt tatttggtac    840

ctacatggag ccaggtacag gtcttgatta aagagatctg gggaggagtg ctcccaagaa    900

gttcagagcc tcactggtga aggaaagcca tgtaaagaca gatcttgaga acccaagatc    960

atcaaggagt atccatgatc aagcagagca gggaaggctt tttgctttgt tttgtttttgt   1020

ttttaacatg ctgtgtggtt cagtaaaatt aaaacaggca caatgatatc ctggatgaca   1080

agagctggag gctgtcattc taacaatgta gtgagactgg ctgtcttgtc tcatgcccac   1140

ccctggaaac atgcgcagga actcaaagca cctagcacag aggaagtgtc tggttgtttt   1200

aaaggaaaaa caaaaccaaa aaaagcacct cctgctctga ccacccctat ttccagtttt   1260

cccttttggc acagcaaaga tgaccttggg actgaggtgg aaccatgtaa ttcttcgtaa   1320

ttccagagtc aggcagacct gggtatgaat tccatcttta ctaactgtgt gactcactgt   1380

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aataaaggac cagtttctta agaagggatt gagacctcca gtggcctccc acattgtttc   1740

cggcaagaat ttaaaaatta tttgcaacat atagtaataa aaactaacca caggctgggc   1800

gcagtggctc gcgcctgtag tcccagcact ttgggaggct gaggcaggtg gatcacctga   1860

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aaaaattagc tgggcatggt ggtgggcgcc tgtaatctca gctactcagg aggctgaaac   1980

aggagaactg cttgaatctg ggaggtagat gttgcagtga ccgatatcg cgccattgca    2040

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```

<210> 1456

<211> 1801

<212> DNA

<213> Homo sapiens

<400> 1456

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catcagacag catcggcatg gagctgctac caccaaaggt ggccagctgg gaggagacgg     180
ggtttggggg attaccttgg ggttctccag gattccagcc tcgtagctgc ggaggggaaa     240
ggaaagacag ggtcagctgg ggagggacat ggcatgtccc catcccccaa cacacacacc     300
ccattgtgcc catgagcctg gtctgccttt tactctctgc cagagcatct gctgccaacc     360
tgcctgaaac attctgggcc caccatagtc acccgtggag ctgcaggttg taagaaagag     420
ctggggcctt tacctgtctt ctggggactg ccccgggct ctgcacgtgg ttggggggc      480
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gaatgccacc tcctctaaga agccctcctt gatactcctg atgaggccgg gtccccatga     600
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tcgacctctg tcctgcctga ggcctctcag ctccccgagg gcagggacca ctggtgtgag     720
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gagccccaaa ctctggcccc cattcagaca agaccctggc tacctcctag tgttggtcac    1020
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tgtctgcaat gctgaccttg gaggttcctt ccagaagact ttgagtctac atctcaagga    1140
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caaccagccc cgccaccacc ctacgagctg gggcttgtgt gaacccgctc gcactgtgga    1260
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acccacctct gcccaggagg cccaggctaa gagggctgca ggtcacgcat ggaaggccca    1380
cctgactcag ccttaagagg aggaagaaga tgaggcttgt cgccctgggg acccgcacca    1440
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cacctggcac tgctctcctg gccccaagct tataggcac agggtgcact gaaggggccc    1560
cacccagccc ctcagagcca gcgagactgg atgctctgcc tctgagcccc ttcagcccct    1620
cagccccact ggatccctgt gggaaccaca ggcagccccc accgggtcac cctcccatct    1680
ctctcctgat gggatcgacc ccactcaggc tcattcccaa gatggtgaga ttctagaggc    1740
ctcctgcagg gagcagctgt ttccccatca ccaccttaac attaaaatga ggctaaatgc    1800
t                                                                    1801
```

<210> 1457

<211> 2209

<212> DNA

<213> Homo sapiens

<400> 1457

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agaaaccata tgaatgtaat gaatgtggga agacctttag ggttagttca cagcttattc   180

agcatcagag aattcatact gaagaaagat accatgaatg caatgagtgt ggcaaagcct   240

tcgagcatag ctcaggcctt attagacacc agaaaattca tactggagaa aaaccatatc   300

tgtgtaatga atgtgggaag ggcttcgggc agagttctga gcttatccgg catcagagaa   360

ttcatacagg ggacaaaccc tatgaatgta atgaatgtgg gaaaactttt ggccagaact   420

cagagattat tagacatatt agaattcata ctggtgagaa gccctatgta tgtaaggaat   480

gtgggaaggc cttcaggggg aactcagaac ttcttagaca tgagagaatt cacactggag   540

agaaacccta tgaatgcttt gagtgtggaa aggctttcag gcggacctct caccttattg   600

tccaccagag aattcatact ggagagaaac cccatcaatg taatgagtgt gcaagaacct   660

tttgggataa ttctgagctg cttctccacc agaaaattca tattggagag aaaccttatg   720

aatgtagcga gtgtgagaaa acatttagcc agcattccca acttatcata catcagagaa   780

ttcacactgg agagaagcct tatgagtgcc aagaatgtca gaagactttt agtcggagct   840

ctcacctcct ccgacatcaa agtgttcact gtatggagta atctgcaaaa taggaaagct   900

tttagtggaa aagctaaagt ccaacttatt cattgttca taatatgcaa atatgcaccc   960

caagtattca aatccaatga atggacagaa cctcctctgt cctcccactg attttaaata 1020

gttggttgaa gaagatgagg cactttttt ttttttttta agcattgggg tcttgctctg 1080

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tattagaaag tcataattta gaagacacac ctcattctcc tgtccatgtt tagcattgga 1500

ataatttagt aagctgttat tagcttcaaa gtcgtccagc cctgctatga agttactta 1560

gaagatggca gcattaatga agaagcaggc tcatttcaca tctgtcagcc ttccttattc 1620

atctgaagag gctgccatga tggaggaact gacaggcaat ttacaacggg attataagtg 1680

aaggccttag aatccagagg ggccgattag gcaacaccag gggataaaca attggggtca 1740

```
cactgctcgg catgggcaga agcagctctt caggagctgt ccacacttca ggggtgctca   1800

gactgactgc tcctaagaat tctgctgcat atattttag ccccatctcc tgccactgct   1860

gacagatatt gtgacagtaa gtagcagaca ggactgtggc ttcacctcct ccgggcacct   1920

ggctacagtg atgagtcagt tcacctgatg acaaaccagg gtctggcctt gccaaagcac   1980

ttaagttctc atgacctgga ccacactgga ggccctggct aagtcaggat gtcgtagcct   2040

cttcttggtt ttgccccttg gccttgaaat tctttttct tgaataactt taaaaaaata   2100

gagataaagt cttgctatgt tgcccaggct ggtcttgaat gcctgggctc cagcaatctt   2160

tttgcctcaa cttcccaaag tattgagatt acaggtgtga gctaccatg              2209
```

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<210> 1458

<211> 1753

<212> DNA

<213> Homo sapiens


<400> 1458

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cgaccccga ggcgcaaggc tgagccccat ctcgctatcc gggtccggag gggttcacct   180

tagaaggatt ttttgaagct cttggcgctg gctctaaaag aacccacttc cttgcggatt   240

tcaggagtca agaatcctta aacggagcca atttgctttg taaagccaat tgcccaagtg   300

acttgagttc gaaaggagat acttcctgga caactgctat aaaaacaaca acaaatactt   360

ttattaattc ggggagcctg gtcaccaact ggatgctcag ttgaggggag atggaaccct   420

gagcagccca tgtacatgga agatctttat tgcagagatc ttcaaaccag gaaactgagg   480

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agagctgtcg gaagcttaag cccatgtgat gaaccacgaa tgtgatttta cctcatttaa   600

gccttgcagc aaactctgcc aagctgtctc taccaggcca gaatttgggg caggcaagat   660

tttcagcatc cctaaaatca cactaagaag ataaacatgg aaacagcttg gagctgccct   720

acccatagtg aggtggtact gactggaaga cagcttaaac gatttggaga aaagtggaat   780

acattaatct cagaaaactc taccacctgt agaaagagag ctaaaatgga gacaaccaca   840

ggcagtctaa gatacgctga actactacag aaaataatgc agcatgaagg aatgctggaa   900

ggatcttcta agggtgtgag gatacaggcg tcaaagaccc cgtgctgaga cagctccata   960

acaacatgca gatatttggc aatgagggtt cagaagagga cttgctgtgg agaagagaga  1020

aaagagatgg gaagactctg tgaatgaata gagaacactc tgcaagcatc ccagttcctt  1080

tggttgccct gcagtctgca ggtaccagga gaaatcaaaa gccgcctgga agggctttct  1140

gtctgtatgg agtcaaggca gtgtcttcaa atctgtgctt tctaaaacaa agaaataacc  1200
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ttgatgaaac aaattttccc cagaggaagg ggagagccca cagtgagctg gtaaagaaga   1260

tgcctggagc aggcagcatc ctcaaatgga agagatggtg tcttgctatg ttgcccaagc   1320

tggtcttaaa ttcctggcat caagtgatcc tcctgcctca gcctcccaaa gtactgggat   1380

tacagaacaa aacaatcagc aggcgggtct gcggcattct aagaacagac actggcagga   1440

acaaaggtta cagaagtgaa tgactctaag aatcaagcaa gacatggagt ggcagaaaat   1500

taaattctga atccctaaaa gacatgatgc aaagatgacc tcctctccca aggacatgtc   1560

ctcatcctgc gctgaccgtg tgtggtcatt tcagaaaaag cgaacaatgg agaacctgct   1620

tgaatgatac ttagacctgg gacaactgaa aggagttgca cttatacaat tcggtgcagt   1680

ggagtcccct gggaggagcc ccagtcacac gggaagagac agtcacagct gtaataaatg   1740

atggctagca tgt                                                       1753
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<210> 1459

<211> 2308

<212> DNA

<213> Homo sapiens

<400> 1459

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tagttccctg ccttctgtct cctctgcacc tatcactagc gggcaagctc ccaccaaaga    180

gaaagtgtcc acacaggacc agcccatggc aaacctatgt accccatctt caactgcaaa    240

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agcacctcga gtttctcatc gaatgcagcc cagaggttct tttttactcca tggtaccaaa    540

tgcaactatt caccaggatc cccagtctat ttttgttacg aatccagtta ctttaacacc    600

acctcaaggc ccaccagctg cagtgcagct ttcttcagct gtgaacatta tgaatggttc    660

tcagatgcac ataaacccag caaataagtc tttgccacct acatttggcc cagccacact    720

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cccatcaggc agctccccat cttcctcttc tgctcctctg gcaagttttt ccggcatacc   1020

aggaacaagg gtttttcctgc aagggccagc tcctgttggg actcctagtt tcaacagaca   1080
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acatttttct ccccatcctt ggacaagcgc ctcaaactca tgtgactctc ctattccatc   1140

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actggcccga attcggcaag gagggtctgt tgcacaagcc ccggcgggga ccagttttgt   1320

cgctcccgtt ggacacagtg gaatctggtc atttggtgtc aatgctgtgt cagaaggctt   1380

atcaggttgg tcgcaatctg tgatggggaa ccatccaatg catcaacaat tatcagaccc   1440

aagcacattc tcccaacatc agccaatgga gagagatgat tctggaatgg tagccccctc   1500

taacattttt catcagccta tgggtctgcc aatttccatg tatggaggca ccataatacc   1560

ctctcatcct cagcttgctg atgttccagg aggccctctg tttaatggac ttcacaatcc   1620

agatcctgct tggaaccctta tgataaaagt tatccaaaat tcaactgaat gcactgatgc   1680

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ccaggatcat ctacgaccga aagttcctgc tggagtgcaa gaactcaccc attgcccgga   1860

cacccccctg ctgcctccct cagattcccg gggtcacaac tcctccaaca gcccctctct   1920

ccaagctgga ggagctgaag gagcaggaga cagaggaaga gatacccgat gacgcacaat   1980

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tcctcctaac cctaaaccct ctatgctcag gggctggaac tggggaatgg agtaagtcac   2280

cttctgactg cttagtaaac attcaaag                                       2308
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<210> 1460

<211> 1436

<212> DNA

<213> Homo sapiens

<400> 1460

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ttggatagag gctgttgagc agggctgaag ttggctaatg ccgtgtgctg ttggctttca    120

acaattccga tagagaaact gaagcacaga gaggttatgc agctttccca ggttcatgta    180

gctggtaaga acagagtcca tgttcttatc actcaagatg ttctgttggg gacggcatgc    240

catggtctta aggatcgccc ccttctcaga tgatctgctg ctcacctcag atacctacag    300

agactctgct ggtgcctgtc aaagctctaa tacctcaagg aatgtcagaa tatgggacag    360

aaggagccag gacatccacc ttgcactgtt ctgggaggaa gaaatacatt ttctggcctg    420
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cgcagggtgg ctcacgcctg taatcccagg gcgctgggat tatgggtgtg agccaccaca    480

cccagcctgc ttcacaagtt ttaactctgt tactgttgat gatgtacctc acagacccgc    540

cagtcatgcc acatgtgaat cttgagtgag caatttaagt ttgagtttct tcctagaaaa    600

taataaaatg ctataggaaa aacagatgta atttccagag aaagggcaga ggactttctt    660

acattttttt gggtactcag tccaaaaagt acttgggtgg ttgctatcca tcaagcaatg    720

tgctagccca tttcacatat attttgctac tataatagtt gatacaaagt tctgcatagt    780

taaaccatag gaccagaagg ttatactaat aataaaaatt tggtttgaaa atacttggag    840

aggccgggtg tggtggctca cgcctgtggt cccagcgctt tgggaggccg aggcgggcgg    900

atcacagggt cgggagattg agaccatcct ggctaacacg gtgaaacccc gtctctgctg    960

agaatgcaaa aattggccgg gcgtggctgc gtgtgcctgt agtcacagct gctagggagg   1020

ctgaggcagg agaatggcgt gggcccggga ggctggagtg cagtggcggg atctcggctc   1080

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ctcgatcttg gctcactgag gcaggagaat tgcttgaacc caggaggcag aggttgcagt   1380

gagctgagat cgtgccgctg cgcttcagcc tgggcgacag agtaagaatc tgtctc       1436
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<210> 1461

<211> 1878

<212> DNA

<213> Homo sapiens

<400> 1461

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aaacaaaaat gaagccagtg tagttggatc agatacctca aatcagctat gcatccacag    180

ccccagagct aagtgataac accaggtatg acttttctc tcgagtggtt ccgcctgact    240

cctaccaagc ccaagccatg gtggacatcg tgacagcact gggatggaat tatgtttcga    300

cactggcttc tgaggggaac tatggtgaga gcggtgtgga ggccttcacc cagatctcga    360

gggagattga aaatgtatga aaggcctggt cttgttggac agattgggct aattgattta    420

attggacaac tgttcacacc tgctgtgġtg tttgcattgc tcagtcacag aaaatcccac    480

gtgaaccaag acctggagaa tttgaaaaaa ttatcaaacg cctgctagaa acacctaatg    540

ctcgagcagt gattatgttt gccaatgagg atgacatcag gaggatattg gaagcagcaa    600
```

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aaaaactaaa ccaaagtgggg cattttctct ggattggctc agatagttgg ggatccaaaa    660
tagcacctgt ctatcagcaa gaggagattg cagaaggggc tgtgacaatt ttgcccaaac    720
gagcatcaat tgatggattt gatcgatact ttagaagccg aactcttgcc aataatcgaa    780
gaaatgtgtg gtttgcagaa ttctgggagg agaattttgg ctgcaagtta ggatcacatg    840
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ccctgcacaa tatgcacaaa gatctctgcc ctggatacat tggcctttgt ccacgaatga   1020
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gaagagggat ccagatgtct ctaccctggc caactctttt tactccttca ttttccagta   1140
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cgtatccacc gaatatttga gcaggggaag aaatctgtca cagcgcccaa gttcattagt   1620
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gatccagaga aggccagggg agtgctcaag tgtgacattt ctgatctctc actcatttgt   1800
tcacttggat acagtatcct cttgatggtc acttgtactg tttatgccat taaaacgaga   1860
ggtgtcccag agactttc                                                 1878
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<210> 1462

<211> 1962

<212> DNA

<213> Homo sapiens

<400> 1462

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aggagctgag gcagggcctg agtgaactcc cagccatcca cgaccttcat caaggcatcc    180
tggaggagct ggaggaaagg ctgtcaaatt gggagagcca gcagaaggta gctgacgtct    240
tccttgcccg ggagcagggg tttgatcacc acgccactca catcctgcag ttcgacaggt    300
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acctaggtct gctcagtgag aattgcctcc actctccccg gctggcagct gctgtccgtg      360

aatttgagca gagtgtacaa ggaggcagcc agactgcgaa gcatcggctg ctgcgggtgg      420

ttcaacgcct cttccagtac caagtgctcc tcacagacta tttaaacaac ctttgtccgg      480

actccgccga gtacgacaac acacagggtg cactgagcct catctccaaa gtcacagacc      540

gtgccaacga cagcatggag caaggggaaa acctgcagaa gctggtccac attgagcaca      600

gcgtccgggg ccaaggggat ctcctccagc caggaaggga gtttctgaag gaagggacgc      660

tgatgaaagt aacggggaaa aacagacggc cccggcacct atttctgatg aacgatgtgc      720

tcctgtacac ctatccccag aaggatggga agtaccggct gaagaacaca ttggctgtgg      780

ccaacatgaa ggtcagccgc cctgtgatgg agaaagtgcc ctacgctcta aagattgaga      840

cttccgagtc ctgcctgatg ctgtctgcga gctcctgtgc agagagggac gagtggtatg      900

gctgtctgag cagagccctc cctgaggact acaaggccca ggcgctggct gcattccacc      960

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tcccgctgtc ttcaccccgc ttctcgggca gtgccttttc atccgtcttc cagagcatta     1320

acccctcgac cttcaagaag cagaagaaag tcccttcagc cctgacagag gtggctgcct     1380

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ggaagaagct ctggtttgtc atcaaaggca aagttctcta cacctacatg gccagtgagg     1500

acaaagtggc cttggagagt atgcctctgc taggcttcac cattgctcca gaaaaggaag     1560

agggcagcag tgaagtagga cctatttttc acctttacca caagaaaacc ctatttttata     1620

gcttcaaagc agaagatacc aattcagctc agaggtggat cgaggccatg gaagatgcga     1680

gtgtgttata gcagttatca agcatgtgga cttgtaacaa attcttaggt caatatgtga     1740

atgcttttag aagctaagct gtggctcaac tcatccggac acacacctgg attcagcaat     1800

gaggcctgac cttttttgct ataaccgccc caccactccc ctgcccttgc caacatcttc     1860

atgaatggaa tccttaaggg atatttatgg acctctcctt ttctgtgttt tccacccta     1920

cccccacccg ccacccagta ataaactatt tccttacccc gc                       1962
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<210> 1463

<211> 1827

<212> DNA

<213> Homo sapiens

<400> 1463

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aacaggggc gtctcggtct gacgtaactg ctacgcggta cccggatggc ctctttctcc    180

atcttcaggg gcgcctagat gccaacctca tctccctggt cccggagagg agctttgagg   240

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acctgaatta taacaagctg caggagttcc ctgtggccat ccggaccctg ggcagactgc   540

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caccaccatg cccagggggt tccataacaa caacatcaag gccatcccag aaaaggcctt   660

catggggaac cctctgctac agacgataca ctttttatgat aacccaatcc agtttgtggg   720

aagatcggca ttccagtacc tgcctaaact ccacacacta tctctgaatg gtgccatgga   780

catccaggag tttccagatc tcaaaggcac caccagcctg gagatcctga ccctgacccg   840

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ggccttgct tcacacgtgt aaatatccct ccccattctt ctcttcccct ctcttcccttt  1380

tcctctctcc ccctcggtga atgatggctg cttctaaaac aaatacaacc aaaactcagc  1440

agtgtgatct atagcaggat ggcccagtcc ctggctccac tgatcacctc tctcctgtga  1500

ccatcaccaa cgggtgcctc ttggcctggc tttcccttgg ccttcctcag cttcaccttg  1560

atactgggcc tcttccttgt catgtctgaa gctgtggacc agagacctgg actttttgtct  1620

gcttaaggga aatgagggaa gtaaagacag tgaaggggtg gaggttgat cagggcacag    1680

tggacaggga gacctcacag agaaaggcct ggaaggtgat ttcccgtgtg actcatggat  1740

aggatacaaa atgtgttcca tgtaccatta atcttgacat atgccatgca taaagacttc  1800

ctattaaaat aagctttgga agagatt                                      1827
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<210> 1464

<211> 1853

<212> DNA

<213> Homo sapiens

<400> 1464

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gactgactcc tgagtgtgaa taacgggaga gataatgtag ttctgttttt cacatgtggt   180
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tgagccttta gaaaaggaag aaacaagtca tattgaagaa cttcaatctg aagaaactgc   300
catatctgat ttctctactg gcgaaaatgt tggaccactt gctttaccag ttgggaaggc   360
aaggcagtta attggacttt acaccatggc ccacaatcct aatatgaccc atttgaagat   420
taatctgcca gttactgccc ttcctcccct ttgggtaaga tgtgacagtt cagatcctga   480
aggtacttgt tggctaggag ctgagcttat cacaacaaac aacagcatta caggaattgt   540
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gcaactgagt gacagctcac ccatagacca tctgaatttt cacaaacctg attttttcgga  1740
attaacacta aacggtagcc tggaagaaag gatattcttt actaacatgg ttacctgcag  1800
ccaggtgcat ttcaagtgaa gtgtgctgat gaagtcctct ataagcacaa gcc          1853
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<210> 1465

<211> 1940

<212> DNA

<213> Homo sapiens

<400> 1465

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taaggtagaa  gacgatatct  tccaacactt  ctgtgaagaa  attggcgtgg  aaaatattcg     180

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agaagttgta  agtattcaaa  cttctctgga  acagaaacga  ttagagaagc  ataacttgct     600

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<210> 1466

<211> 2515

<212> DNA

<213> Homo sapiens

<400> 1466

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gatctctctt ccacctaccc aacaggacag gactcgccgc ctttctttcc cggcagaaag 180

gggtccgttg cggacaagac caaagtgagc agctggtttc ccctacttgt ccttccgggc 240

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<210> 1467

<211> 1940

<212> DNA

<213> Homo sapiens

<400> 1467

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aggcctacca ggcatgaggg gtcataaagg ggctaaagga gaaattggtg aaccaggaag 420

acaaggacac aagggtgaag aaggtgacca gggagaactc ggagaagttg gagctcaagg 480

acctccagga gcccagggtt tgcgaggcat caccggcata gttggggaca aaggggaaaa 540

aggtgctcgg ggcttagatg gtgaacctgg gcctcagggt cttcctggtg cacctggtga 600

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<210> 1468

<211> 2868

<212> DNA

<213> Homo sapiens

<400> 1468

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gaacagggag ctaaacatca ccatcatcta agagctggtc aagaaattaa aaaagaagaa  2820

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<210> 1469

<211> 1924

<212> DNA

<213> Homo sapiens

<400> 1469

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aagctgccag acctagatag cttcacacat aaggaaccac cttagcatcc ttcactcaat   180

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<210> 1470

<211> 2112

<212> DNA

<213> Homo sapiens

<400> 1470

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<210> 1471

<211> 2089

<212> DNA

<213> Homo sapiens

<400> 1471

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<210> 1472

<211> 2050

<212> DNA

<213> Homo sapiens

<400> 1472

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<210> 1473

<211> 2145

<212> DNA

<213> Homo sapiens

<400> 1473

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cagtatccag aggcggttct agtaaagagg ctggattccg agaggccaga gcggtatcat   960

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ggctatggcg ggacacccga aagagaggggt ggtcacagat gaggtccatc agaaccagat  1140

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gaatcccctg cgcaaggttc acaggattac gaggaagcct atgtcttggc atgataacct  1260

ggaggaaccc gcagacgcca ggtttctgaa tctcattcac catgctgccc aggggccaac  1320

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aatgttagca ttttaaacca tttgtcttta aaattaataa taaattgcat atatttattg  1740

tgtacaatgt gatgttttga aatacgtata cattgtggaa tggttaaatc gagtatctca  1800
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catacttatt ttgtggtgag aggacttaaa atctattctc ttagcgattt tcaagaatac   1860

aatacattgt tattaactgt agtcactaca gtgtatgaca actctcttga acttattcct   1920

cctaactgaa attttgtatc ctttagccaa catcgcccca attcctaccc ctaacccctg   1980

gtaatcacca ttctaatctc tacttctatg agtttgactt ttttagattt agaaaatgtg   2040

gtatatttac ttaatggaat acaattcagc cttaaaaaag aaagaaatcc catcatttac   2100

agcaacatgg atgaacttga aggacattat gttaagtgaa ataag               2145
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<210> 1474

<211> 2107

<212> DNA

<213> Homo sapiens

<400> 1474

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cttcccggac tccaggtccc aggccgcccc gctccaccct gcggatgatg gagacaaagt    240

cccccacaag cccctcatat ggggcaaggg ggaaggtacc acctggggcg gggcctggct    300

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ttgcccaggc tttctcaaa ctcctgagct caagcaatcc gcccacctca gcctccgaaa    420

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gaaactgagg cctctactca acctcacaga gcaagctaat gccagactaa aacctctggc    660

ctccaaaccc catgcccttt cttttgtaa gctacacaga ctgtcagggc aaatgtccac    720

tggataaaag catgagatga tgaatggacg gaaattaacc aaaaaggtca tcaacacatt    780

ttcaacagat ccatcaatgt gcactcaaag aagctgagac aggcctaacc tttaaaggct    840

gatgtcaagg aaggggagca gcaggatggt actcggtctg acccaggggg gtcgctcccc    900

tgagcctatg tgtgtttgga gtggacgaga atgggagaga gattagaaaa acagcagcat    960

catgtgaatt acagatgcac aggaaagctt acagcctgtc tagacaaatt cacttatgtt   1020

acagatgagg aaactgaggc tcagaaagag gaagggactt gcccaaggcc acatagcaaa   1080

ggaatagcaa agttgagaca aaaataatgg acattgtgac tctgagtcaa gtgagaaaca   1140

gagagactga tggagaagtg tgtgtgtgtg tgtgtgtgtg tgtgtgttta tgtgcatgca   1200

gtgtgcactc actcaggggg ccagggtcct gaatttagaa acactaccac caagaaggca   1260

ttatgcctac cctacccagg cagtgggggc tggagccagg gcctgggggc tggaaccagg   1320
```

```
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tctggccggg taagcagctc tcggccctct tggctgccta gcttccagag gcgggactct   1500

tgctgcattc ccagaagctt cttcaactcc gactccagga aacctgagag ccagagagat   1560

ggcaagggac agggagatgg cagggaacag gcaggagtag gatggagcag cccactggga   1620

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gcatgagagc ctgcgtcttc acccactggg acagcatgc aaggggcagg tatttgcccc   1860

caccaccaac caactcaaga gcctggatct ggaacccaaa ctgcctgcac tcaagtccca   1920

gctctgccca tcactagctg tgtgacatcg ggcaagttct cactgtgaac tggagatggc   1980

aataggacct acctcagagt cgtaaaatgc aggatttttat gaaaagtgct taaagagggt   2040

ctgccccatt aatggctatg taaatgtgaa ccacgatttt catcatatta tgtatgctat   2100

caccact                                                              2107
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<210> 1475

<211> 1825

<212> DNA

<213> Homo sapiens

<400> 1475

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cccagtccag ccacaaaaag cttctgcaga agcctgccta atgtttacaa acctacgatg   180

cagccactac aattatcccc atttcaaggt cgaagaaatg gagatttata gaagttgtca   240

aatcgcttac tagcacacag ctaataagta gtaaagccat ctctcaaatc caggaaatct   300

aactgccctg cctgagctct gagtcaaggg tcctactttg gctgccagcc agcgacgact   360

tcaagggaat ctggaaactg ttcttcagga agaaacccat tagtttggaa ctggagaatt   420

cctttgcatc agatactaaa atgaaagaac cactttagg tggtgagtgt gacaggcag   480


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cagagagtgc ttcacagttg actgcaggca ttcagctttc tctggcatca tctggcgtga   660

ataaaatgct tccttcagtt tcaaccacag ctattcaggt ttcctgtgct ggttgtaaaa   720

aaattctcca gaaggggcaa actgcttatc agaggaaagg atctgctcaa cttttctgct   780
```

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cagcaacagc agatgtcatt gtggatcttt ctaagagttc acctagtgaa cccagtaatg  1620

ctgttgctag' tagtagtacg gaacagccaa gcgtttcacc atcttcatca gtattcagtc  1680

agcatgcaat tggttccagt acagaagtac aaaaagacaa tatgaaatct atgaaaataa  1740

gtgatgaact atgtcaccca aaatgtacat ccaaagtaca aaaagttaaa ggtaaatcac  1800

gaagtattaa aaaatcttgt tgtgc                                         1825
```

<210> 1476

<211> 2174

<212> DNA

<213> Homo sapiens

<400> 1476

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ggacaaccac ccccacgtca gcaatgacac ttcgccgcag taaaggcggg tgctagcaac    60

ctgcttcttc actgttaagg tctacagcaa accaatcctc ttcctccgtt agtgcgagtt   120

ccggccaatg acgttcgccc tcttaggttt ttttttttag cccgccctcc aaaagcgtga   180

cagccgttgg gtcataagtc tacagggcag aatgttcacg tggcctattt cacgacccag   240

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aggcattatg ggtttgtggt tttttccccc ccccactggg agaggaagtg tctacgtggc   360

ctgcggaaat aggataggcg gaaatgagct aaggttcccg cgagtgggga agcgcgaggt   420

caaatctggg gccacgcccc cagtcctgtg gcgcaactcc ccgaacacgg aaaaaaaagg   480

cgcagtgggg gttctgctgt gtttgcaagt gagggtcgtg agtgcaacgg gcgcaaggca   540

ttaaggccag tgtgttagtg cgcgggcagg ctcgcgtggt gctggggttg ctgtgtgagc   600
```

```
ggccctcgtg gctcgggagg tgctgtgttt gcgcaggcgt gcgcccctgg cgtcgggact    660

ggtgagagcc acggcgggcg cgcgcgcgtg cgtgatggtg ggggcggtgc agggaggggt    720

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aaggaaaata aataattaag gaaaggcgac aataacagat aaaggggcac tgtcagaaat    840

attttggctt tccgtactga tttaattact ttaaaaatac acttcctacg ttttcctccg    900

tgccaaaatc ctgtcgtaaa ccacggccct ccaatgattc agagccaaac ccttccatcg    960

ccgcattagc aactccaaag ggaggcttct ttcaagttct ctagtatcgt cctccctccc   1020

ctcctccaca cctacccccct cccttcaagg ttgcgtgcag ttctcttggc acaaatacaa   1080

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tccttgggtt aaaaaaaaaa aaaggcccct ctccatccct cttttctttt gtccttgcct   1560

tgtttaatca aagagttaat gaatgacgca agcactgatg ctgaagatcc taacccttt    1620

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attggtaaac tttattgtgt ctttggggta agagaaagag acctaattgt aaacctcatt   1860

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catcaccaag tccttattag atgagcacta ctggatcaaa gtcaaacaac aaaaatcata   2040

ccccttтcaa ttatctatct tatatacttg tacaccacac aggagaatcg cttggactgg   2100

ggaagcagaa gttgcagtga gccgagactg caccactgca ctctaacctg ggcaacaaag   2160

tgagactcca tctc                                                    2174
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<210> 1477

<211> 1791

<212> DNA

<213> Homo sapiens

<400> 1477

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gcaccccgcg tagtccccaa gtgcgggact gggcctatgc tactacaggc gctcgctgcc    180

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gacagtgaag agaaacggat tcgggaattc taccagtccc gaggtttgga ccgggtcacc   1320

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cactctaaag cccactacta tcgctatgat gagcagttga acctgtgcct ggagcggctg   1440

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agagctgagg tacgccatct ccggagggtc ctgtgtcacc gcttgatgct aaaccctcag   1560

catgtgcagc tccttttga caatgaagtt ctccctgatc acatgacaat gaagcagata   1620

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aagaggaggt aggggccaag cccccacccc atcccactcc ccttccctcc ccagatattt   1740

atgtgaaatg aactgcagct ttattttttg aaataaaaac ttttaaaaag c            1791
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<400> 1478

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<210> 1479
<211> 2766
<212> DNA
<213> Homo sapiens

<400> 1479

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actcctttg gctcatgctc tgtgtgtatt ttttcaaggg aatagaagat aatgatgaac      60
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ccaagaactc agggatttac gctgctgccg tggctgtgct ggatgcgatg gttgagagcc     540
```

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cggtgctgga tgtcacagat cgcctggcag gtgagcaccc ccagccccac cccacccat   660

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tggggcattt ccgatttcag attttttggat tagggatgca gaactggtat catgaaaata  1020

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tgcagtggcc ggtctctcaa cttcttgctc tgcccacttg tggctgccct gcccggaaag  2100

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catgaaaggt ttacctgtcc ttgtctgggt aatttacggg gcccagaggt gggcaagtat  2580

cttcacctta tccacttact gtaatttttt cttgtctatt tccaagagac ctcaaaagaa  2640

gagcttctcc ataggtcttc tgttaactct gtgtccacca ggaacacaga agaaaatttt  2700
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tacttc 2766

<210> 1480

<211> 844

<212> DNA

<213> Homo sapiens

<400> 1480

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<210> 1481

<211> 1800

<212> DNA

<213> Homo sapiens

<400> 1481

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cgaccacccc cggctcctgc catcactcca tccggaaccg aacccgaacc tccgcacccg 180

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gatgtctggc gtacctgcct gagtagatgc tagcccgttg gcattgctgg aacattcacc  1680

ccaattatat acagaaggcg agttactcaa gggaagaaga tactgtgttc atttctggac  1740

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<210> 1482

<211> 2187

<212> DNA

<213> Homo sapiens

<400> 1482

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<210> 1483

<211> 1733

<212> DNA

<213> Homo sapiens

<400> 1483

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<210> 1484

<211> 2008

<212> DNA

<213> Homo sapiens

<400> 1484

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<210> 1485

<211> 2414

<212> DNA

<213> Homo sapiens

<400> 1485

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<210> 1486

<211> 1824

<212> DNA

<213> Homo sapiens

<400> 1486

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<210> 1487

<211> 1742

<212> DNA

<213> Homo sapiens

<400> 1487

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gcaggcgtcg tcagtagaca tcgcgcaggc gtcgtcagta gacatcgcgc aggcgtcgtc       120

agtagacatc gcgcaggcgt cgtcagtaga catcgcgcag gcgtcgtcag tagacatcgc       180

gcaggcgatg ggtgaggcgg ctttggccgc catgttttcg tcgcagtaac tgccttggtg       240
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tcagtagtca ttgccagttt cgggcgttct ggacaattgg gatgctgcag agttcatggc    300
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aggtgcgtca agtcgctgcc gctcccctcg tgggcgtcag gcctcaagag ttccccgcct    420
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cacccgagtt tccaggcctc aggcgctttg gaaacgcctg tacgtcgcct gtacctgaat    660
ggcaggtact catctgcttt agctacatca tagtctgcac cacttctgcc agctcgattg    720
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ctctccttga gccctaaaca cagtagattc agaaactaag tcagcaaatg gaggaagatt   1020
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cccatctcca gtaaatgtga aagcagaaga cgttttccct gagaagacat agaaagaaaa   1560
tcaactttca ctaaggcatc tcagaaacat aggctagggt aatatgtgta ccagtagaga   1620
agcctgagga atttacaaaa tgatgcagct ccaagccatt gtatggccca tgtgggagac   1680
tgatgggaca tggagaatga cagtagatta tcaggaaata aataaagtgg tttttccaat   1740
gt                                                                  1742
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<210> 1488
<211> 1988
<212> DNA
<213> Homo sapiens

<400> 1488
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ccccgaattg tttaaccctc atgcttcaga attaggctga ggcttgcggg gtgggtcatg   120
```

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ttgacctggg tgaacagaga tccctttaag aagaacttct ccatgttcca gaggcgcgtt   180

cttactgcag gtgagtggca gtatgggaat tagtccacag gccccttctc gaatgcctgc   240

cctctcttgt tccttgtcct caacgtcttt gaaacttggg cttgttggga agacacctgc   300

aaaaggatgg atgcacatga ccttcagctc taatgaatca agctgctgat gaggaattca   360

ctgggctccc aatccagaga gcttcgcaca cacccactgg ggttgagacg agcactgggt   420

ttatttattg tggacttttg gagtctgaag gactcttgcc acccatctgt ttcacggaac   480

agaacctgag gctcagaggg agcaaggcgc tcccccacag ccgcattgag agcctgagcc   540

tgggcacccg atggagtgaa tgaggctgga gtcccagacc tgcctctcat gagcacgtcg   600

cccactgagc ctcagcgtca tcatctggaa aacagggata atattatgac ctcagaagct   660

tcgggggagg aagtaagtga aataatgcat ttcagatgct cagcgccttt taagtgcttg   720

atgctcattc cccaagatta catgagagac atggaaaatc tttaatgacc aaggacccac   780

ccagggtcac tcagccggga cccttggtcc gtggcccaga gtgtctccag tgcccctgca   840

ttgaggccct aaacaaggcc agaagcaggt gccggggacc cctctggatt ccaccagagc   900

accttcctag gatcatggct cccaaaacgg aagggaagga gacagcgcag tttgcaaaga   960

ggcaggattt aagcaccagg gtggccctgt ggcgcctcag gaaaatgttt gcctgtcagt   1020

atctgctctc gttcccacct gtccccacaa agcgaggcca taagtcctcg gcgtggcatt   1080

ggagggtctc tgaaggccct gagagctgtg tcagccacgg tgtgttatga agcaaggcag   1140

atgttttgtt aattatttac acagcgtcgg cccctcagag gactgcgctg acaggagcgg   1200

ctgtcacagg cctggccgtg gggcagaagt gagcagccgt cttcccctgg cagtcctcct   1260

gaaaaggtct gcatggcaag gcctgaggga gtcctgcaca ttttatgccc ccgcccccca   1320

aagccatttg ggtttccctt aaactggctt gttttcctga gccggtggag agatccttgt   1380

cctccggaag tggctatcgc tctggggcgg cttctctgcc agctcgtcac accctagacc   1440

cagctgtagt ctgtgtggtg ggagagggtg tcaccaggct ctggaggtcc actcctctgt   1500

agtcacctca tgcaaggagg gcttcacagg ggcccagcct ctactccctc atccggaaaa   1560

cgggccagta acaccaggca ccagccccgt gatcctcagg cacccttggg ggtgatctgc   1620

cttagaaatt caactttagg attagaattc tgctaagagg taccatgtga caaaaaaggt   1680

agtgtaaaaa tcacaaagac caggacaggc tcatgcctat aatcccagca ctttgagagg   1740

ccgaggcggg cagatcactt gaggtcagga gtttgagacc agcccagcca acatggcaaa   1800

accccatcgc tactaaaaat acgaaaaatt agctgggcgt ggtggtggac acctttaatc   1860

ccagctactc gggagcctga ggagcctgag gcgtgagaat cacttgaacc tgggagacag   1920

aggctgcagt gagctgagat tgtgccactg cactccagcc taggcaacag agcgagactc   1980

tgtatcat                                                           1988
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<210> 1489

<211> 1952

<212> DNA

<213> Homo sapiens

<400> 1489

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ccagcaagga aggggcaggg ctggattcaa atgcaagtct gcctctgtgc tccgtgtgtg   180

gacagccagc ccccttccac atctgctgcc tgcctgggtt cctacctgaa gcgcccatcg   240

ctctcagagg tgtgcaggcc gatccaccag tgctgctcct gggcccggga gaactggaga   300

agccaggcgg gcaggtgtgg gtaggcagcc ccctgccctc atcccgggcc tgccctcccc   360

cagcctgcag ccccctgctc aatccaatgc ccaccttctg caagttgtgg ctcaggaagt   420

ctagctccgc ctggctgtgc acggaggtca gctcggcctg gaaccacgtg cagatgcgct   480

gcgcctgcgc ccacgtggag tggtgctcaa agaacttgta ctcggcctcc tggaagcgca   540

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gcacgccagg ccccggaggc gggcgcggca gggccggggc agagccaggc ggcagcaggc   660

gagcctgcag gcacaccgga cccaggcagg caccgtgcca ggccccaggc cccaggcttg   720

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ccctcttctc tcgaccggaa ctcctcatcc cctccatttc attcaggcct ctcgggactt   840

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ccttgagggc tgtcgtcggg ctcccgcacg tccgtaccta ggggaacaag gacaaagacg   960

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cgtcccccag cgccactccg gccaacctct ggggatcttg cagatccagt ccagctgtgt  1080

gtcgcactgc atggccaccc actgcaggga ggccaggtcc agcaccgcac agcctcggat  1140

gtcgtcgtcg tcgtgccggc tccggtcgaa attgtggtaa gagaactgga ggaggcgggt  1200

ggagggaaga ggaacgtgag gcgcaaggtg caggccgccc ccatgcccgg aacaggtgaa  1260

caagaggcct ggcctgagct gcgaattctc accggggggcc gggtgacccc tctcggacct  1320

gctttcctga agccggctcc gactgggggc ccggccctca agaaaacccg cccacctcca  1380

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acggttcagg ccgatccaga accagtgctg ctcgtggatc tcgggttctg attcacttca  1560

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gggcttcaca ttgacccatc gatacagcgt tgaggtcact tcggtaaagt tctccccaca  1740

agacagagct ggggagagct ggaccaagcc atccactcaa ggggcagtgg ccctcccct   1800

ttgtttgggt tccttttggg tgggggtgcc ctgtccagca agattctgca ggctttact   1860

ttacggagtt taggaagttc agatgaggag gtggcaggga tctacggctc tggagttaaa  1920
```

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```

<210> 1490

<211> 2110

<212> DNA

<213> Homo sapiens

<400> 1490

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ctcatgcaga gcgtcactca gcagtggtgc ttaggagcat cagcttgcat cggggcaggc   120

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ggccagacac tgtggcgcat gcctgtaatc ccagcaattt gggaggctga ggtgggcaga   300

tggcgtgagc cccagaattt gaaaccagcc tgggcaacat ggcaaaacca gtctcttctg   360

aaaatacaaa aaattggcta ggcttagtgg tgcacatctg tagtctcagc tacttgggag   420

gctgaggtgg gaggattgct taaacccagg gaggctgagg cttcagtgag ctatgatgac   480

accactgtac tccagcctgg gtgacagagc gataccctat ctcaaaacaa aaacaaaggc   540

aaaacaacat tcaaaatagt agcaatagct actatgtgcc aagcccagac acctctttga   600

gtccttgctg tcaccctatc aggtaagtgt gcttcgaagt tacacgaagc agatggctta   660

gtatctggcc catggtaagg gcctaaaaag tggtagcccc agtggtgggg atgctgctgc   720

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aaggagaacc ccaggtcctt ctgaacagag acagctggcc tcggggcctc cctctcactg  1020

catgcaagag cctgttaggg cacaagactc aaggcgctga gggaggctgt ttcaggaggg  1080

agccgcagaa ggatggtgga gagagaaggg gacagcatcc gccgagggcc tactgtgtgc  1140

caggcactgt ccagggctcc tggcccacat gggctaagtg aatctggaca ctcctcctgg  1200

gagaaaggca cagatggaga aattgcagtt cagggaggtg aagcaagctg ctagcctgtg  1260


gccactttgg gatctgagcg ccagccttct agccacaaag gcagcaaagg gtcatgaaga  1320

aggcatcaca gaggcgattc caggctgtag tggtgaactc tccactctgc acccccaggt  1380

gctgtgccct gtgccctgat tagatagtcc tgaaggtttc tacatgttta agatatcccc  1440

aatgtcaacg atgctctcct gtggatccca agctgtggag atgtcctggg actttccatt  1500

ttaggttcct aaattgaatt tcccaacacc tagaagcaac ccagctgccc tgtatcagac  1560
```

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caaggacctt tatttgtgat tcagaaacag tggaataaaa ggaaaggaaa gaaaaccccca  1620

acagccacct caggaggatg ccccaagggt agtgctctgg tgtcactgac tcagacatgt  1680

gggggcttct gccacccacg ctcaagagcc actttgccgt ttcaccgtct ctgtgtcctc  1740

cacagccctc agcagcatgc acgccaataa catgttcacc acgaggctca aatctcagca  1800

gaagctacag agtccaacat ccaggtaagg gaaagtgcag ggcttctcgg gtgatgctct  1860

actgattta ttttaatgaa tgaaagacca gaagaagtca gtctttgaag ggagaggaga  1920

ggagcatctg ctggcattag cagccatgcc atcggtagga ctggctcacc tggtaacctg  1980

tggccacctg tgcttttaca tctactcttg gttaaccacg ggccactttt ccagcttgga  2040

ctctaagcgt ctgttccact tcctctcctt cctcattgaa ctctttcact aaaaggagag  2100

tgcaagagag                                                          2110
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<210> 1491
<211> 1586
<212> DNA
<213> Homo sapiens

<400> 1491
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aatattttgg cgttcctgta gaacagttag aagtaacttc agcatatttg tcatcactct  180

ggaagaaaca gacaggaaga aattaagat ccacatgaga gaggattgag caccgccttt   240

gagaaggttt tgctgatttg ggaaaataaa gactatggat caactaggag tattgttcgt  300

attattggga aaatgcttcc actggaacct tgtcgaagac ctaattttga gttgatcccg  360

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ttgtatgtgg caaatgatga agaagccagt tatctcagat ttcgaaatag tatatggaaa  480

aatgaagaag agaaagtgga aatttttcat ccttttgcgac tagttcggga tccactgtca  540

cctgctgtaa gacagaaaga aactgtgaaa aatgacctgc ctgtaaatga agctgcaatt  600

agaaaaatag ctgcccttga aaatgagctg actttttcttc gctctcagat tgcagcaatt  660

gtggaaatgc aggaactgaa aaatagtaca aattctagtt cctttggctt gagtgacgag  720

cgcattagtt tgggtcagct gtcatcatcg cgggctgccc atctgagtgt ggacccagat  780

cagcttccag gttcagtgct ttctcctcct cctcctccac cacttcctcc tcagtttttca  840

tctctccagc caccgtgttt tcctcccgta caaccaggat ctaataatat ttgtgactca  900

gataatccag caactgaaat gagcaaacag aacccggctg ctaataagac caattatagt  960

catcattcaa aaagccagag aaataaagat attccaaaca tgttggacgt tctaaaggat  1020

atgaataagg ttaagcttcg tgcaattgag cggtcacctg gcggtagacc cattcataag  1080
```

```
aggaaaagac agaattcaca ttgggatcca gtttctttaa tatctcatgc acttaaacag   1140

aaatttgcat ttcaagaaga tgattctttt gagaaagaga atagatcttg ggaatcttcc   1200

ccattttcta gtccagaaac ttcaaggttt ggacatcaca tttcacagtc agaaggacag   1260

cgaactaaag aagaaatggt caacacaaaa gctgttgacc aaggtatcag caacacaagc   1320

cttctaaact caaggattta aactcaactt aaggttgagc tttaaacttc caaaacttct   1380

tcctggatga taaattattc ttagaaactg atttggactg ttaaaggcta aaagtagatg   1440

tatttaaaga ctcttcttga cacattttgc ctacacttgc tatgtaaata tgtatgcctg   1500

tcatttttgt ttcctttgtt ccttttacg tttatactct gttcttctgt acatagagct   1560

taaaataaac attctttttg aacttg                                        1586
```

<210> 1492

<211> 1965

<212> DNA

<213> Homo sapiens

<400> 1492

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cattccaggc tgggctgtag ctgctcccat aaagggatca cagtttgtgt tccacgcaga    540

aggagcacag aacacttcca ggcatatcct tggagctcaa gacaggttgc tcagctaggc    600

cagagaagag agggatctgt tcatttccag ccctgcaggc ctgttggctg ttttgtgcat    660

ttatgtagct tttaagtgca gactaatagc tatcattat tgcatgccca ctatgtgcca    720

ggcactgtgc caggcattct atgtgagctt tcttatttac tcctcccaac aatcctatac    780

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tccatttata cccagagtgg agaaaacagc ctggtgcagg agggctctga ggcctccccc   1140
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agcttcgggt ctgaagcaaa ggcccagcaa caggaggagc agggcagtgt taatgatgtc   1260

aaggaagagg agaaggagga gaaagaggtc ttgccagacc aggtagagga ggaggaagaa   1320

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agaatggagg tggggccttt ctctacaggg caagagtccc ccactgccga gaatgctagg   1440

cttctggccc agaaaagagg agctttgcag ggctctgcat ggcaggttag ctcagaagac   1500

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ggagacagcc tggatcagcc acatcaactc agttgtccac cacaggggaa ttttgaatgt   1920

cttttgtttt tgttttgttt tgaaaaataa taaacaggca actgt              1965
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<210> 1493

<211> 2397

<212> DNA

<213> Homo sapiens

<400> 1493

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gaccaatcct ctaatcttat tctcacaatt agggaggaag aaaaaaaaac aaacccaaac   180

caaaaagaa gttggtaggt gactctgtga gactactgtt ttataaaggg agcgtttcct   240

tttataaaat ttagctgagc agatgctagg cagcccacag gaggccacta ttcccctcag   300

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tattcagcct tatcgaaaca catgaagcaa aaccattgaa actgtatgtg tacaacacag   1320
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ccttggttcc agagagctct tctgcagcaa gctcaggaga gctgctgtct tccctcccgc   1980
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tcctgtaaat aattccaagg ggaaaactaa acgaggacgt gggttgtatc ctgccaggtt   2340
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<210> 1494

<211> 2075

<212> DNA

<213> Homo sapiens

<400> 1494

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gcctgtgtga agctgtcccc ggggcaaatg gagccattaa aaagcgaaag cctccagtta    120
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agttcctatc aacagtcctt ggcaaaagta atcttcagtt ttcaggaatg aatataaaac    180

tgaccatctc aacatgcagt ctcacattga tgaatcttga caaccaacag attattgcaa    240

atcatcatat gcagtctatt tcatttgcct ctggagggga tcctgatact acagactatg    300

ttgcctacgt agctaaagat ccagttaatc aacgagcctg tcacatattg gaatgccaca    360

atggaatggc ccaagacgtc ataagtacca tagggcaggc ttttgaactc cggtttaaac    420

agtacttgaa aaatccttct ttgaatactt cttgtgaaag tgaggaggtg catattgata    480

gccatgccga ggagagagaa gatcatgaat attacaatga aattccaggg aagcagccac    540

cagtaggtgg tgtttcagat atgcggatca aagttcaagc cacggaacaa atggcttact    600

gccccataca gtgtgaaaag ttgtgctatt tgcctggaaa ctccaagtgc agcagtgtat    660

atgagaactg tttagaacaa agcagggcaa taggtaatgt ccatccaaga ggggtgcagt    720

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caaactgtga agtgcatctt tccaagacca tcatggacca ggtcctctat aaaatgaaga   1440

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cattttttcac tgcaatgtta aaataaatat gacattgaat tcgaactgtg tgtatgtcag   1860

tggaatcaaa tcaaaagcca ctaacatggc tgtctgtttc actggactgt cccattgct   1920

ggttaaaagg attggggccc aaatcctctg gcctagcatt tctcagtgtt tgctattcag   1980

actgtctaaa tacagcatgt gacaagctga agaagccaaa tctagcagtc atttctgatt   2040

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<210> 1495

<211> 2463

<212> DNA

<213> Homo sapiens

<400> 1495

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catgaatgtc accccagagg tcaagagtcg tgggatgaag tttgctgagg agcagctgct   180
aaagcatgga tggactcaag gtaggacatg accctgccaa ggagttcaca aaccactggt   240
ggaatgagct cttcaacaag actgcggcca acttggtagt ggaaactggg caggatggag   300
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tgtatcagaa gtttgtgaag gtattagagg ctgtgggtaa cagagtccat cctttttctc   420
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cctcagcagg aattgagatc ttcaggttcc gtggatcctg ccatctgtta agggagcagc   600
aatagggcgt gggaggtagg gtacagtctc ttaagtcagg agctgccaaa ttttggggtg   660
gccaggggac atctaattca aaggacttag aagccagagg agacctgaga gattatctgg   720
accatccctg ctttgcagat gtggctaaaa gggtgaaaag tggtttgctg aagagcccac   780
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gtggctcctc aaggagcaat ggtggggggct ggcaaaccac tgcctggagc tataaattct  1860
```

```
tagggggctt ccacaaggga atagggatgg tgatggtgtt gagaaggcct tatctacccc   1920

catgacccct cctagatggc tacattgact tcaggtggag agaagccaaa caaagacttg   1980

gagagctgca gtgatgacga caaccagggg tccaagtccc caaagatgtg agacttcatt   2040

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aatgcttgac tgggggcttc ttgggggtgg gtggaactgt gttgtactaa tctttgtatc   2160

cctagtacct caaaaagtgc caggtcctga acaagaattc agtgttgaag gaatgtttta   2220

gaaggaggag aggtcaagcc tttccaccag gtctgtttgt aactgctgat ctcccctaac   2280

agtctgactg atgagatgct gctccaagcc tgtgaggggc gaacagcaca caaggctgcc   2340

cgtcttggga tcacaatgaa ggccaagctt gctcgcctag aggcccagga gcaggccttc   2400

ctggctcgtc tcaaaggcca ggaccctggg gcccctcaac tgcagtcaga gagcaagccc   2460

ccc                                                                 2463
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<210> 1496

<211> 1898

<212> DNA

<213> Homo sapiens

<400> 1496

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ctgttaaaga cccacttgaa ttcagccccc attaggagaa actttggccg gagcagccaa    180

cacatcacct ggaagtcttc agactagact attgaagagt ggattgtgta ctgagggctc    240

ccaagtgctt ccagaagcca ataaaggatc acttcagttt acttcacggc taaggagtaa    300

cccttaagaa ccatggccaa acgcctgcaa gcagagttgt cctgtccagt ttgcctggat    360

tttttctcct gttccatttc tctctcttgt acacacgtgt tctgctttga ttgcatccag    420

aggtatatac tagaaaacca tgattttaga gcgatgtgcc ccttgtgtcg agacgtggtg    480

aaggtacctg ctttggaaga atggcaagtg agcgtcctaa cacttatgac caagcagcac    540

aatagccgac ttgagcaaag tctgcacgtg agggaggagc tccggcattt tcgggaggat    600

gtgaccctgg atgcagccac tgccagctcc ctccttgtct tctccaatga tctaagaagc    660

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ggtactccct gcttctcctc cggccaacat tactgggagg ttgaagtggg agaggtgaag    780

tcatggtccc tgggcgtctg caaggagccg gctgacagaa agagcaatga tttattccct    840

gggcatggct tctggatcag catgaaggca ggagcaatcc atgctaacac ccacctggag    900

agaattcctg caagccctcg ccttcgccgt gtgggaattt cctggatgc tgacttagaa    960

gaaatccagt tttttgatgt tgacaataat gtcctcatct atacacatga tggtttcttc   1020
```

```
tctttggagc ttttgtgtcc attcttctgt cttgagctct tgggagaagg ggagagtggc   1080

aacgtcctga ccatctgccc atgagaaagt cagcccttcc tagaagcttt ctgagaggtg   1140

aaagagaatt ttggcctgag aaaggtcagc atgattgagg aagagataat gtgctatagt   1200

gcaaagactt ggtaaatttt taaagtagat tttgtagact ttgtagcaaa acaattttcg   1260

gatttttggg gtaaattttg tggaatttgt agctaggtaa ctggggtctt tagggatgtt   1320

attaagtact gtaagcttca gttttctagt ctgtagatgc ggataattgt atctcagtca   1380

aacagctgtg gtaattagag acaatactat gcctttgtct tatagtaaat aacaaataga   1440

gaaatcttag attgtaagta agctagatat taggttttgt ggatagacaa tatctttttc   1500

attatttcaa gctgttttgt gtaattcctg ataatgtctg aggaggaaga aaaattcaac   1560

agccagtgtg agttattttg ttgatacagc atgaaatttc agagacaaac tgatattggg   1620

gaagaactaa gtttttcatt tttattttct ttgaaacaca gccacataag ttttcttgaa   1680

agacaaagaa ctttgaccaa aatgcattgt taatggtgat tcatattctt atgggaagtg   1740

tcatttaccc atctcaataa ttggactatt gtgatttata agaattctta tcaaccatgt   1800

taactaacac atattcatca aaaattgttt tcaaggttgc ttttggattt tttatttgta   1860

gaatttattt tcttgcaaat aaatttataa agcattgg                           1898
```

<210> 1497

<211> 1423

<212> DNA

<213> Homo sapiens

<400> 1497

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tttaaggtga tggcattccc cagccctgcc cggcaccggc ctcccaagcc tgggacctgg    120

gggctccctg cctccttcca gatggaggaa gtgagaccag gaccacagac tgggcgctcc    180

ctgctgagtc tgtggccctg aaggctgttc agctctaagc gtcggtgcac ggacaggcca    240

gacagggctg tattgctcca atcgccctgc aagaatcaca gccagacggg ggcttcccga    300

gtgctgccca ccttgccggc acgcaggagg aggtggcatg gactggggag gaggaagcac    360

tctcactcct gctggagcct ctgcccagga accccgattg gcccagccgt ccctggggag    420

gcccatccca cgtgtcccgc accccgtgtc tgtcagcact gatcagggtc tcccagacac    480

ctgctctggg gttgccatgg ggacgagcgg gagggtgagt gtggcgcaca cagctgtctg    540

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tgggcaccgc cggaggtgtt cacacagcgg tgtacaccga cccctctgca gatgtgcaca    660

cacccagcaa ggctacgtcc acaggcgtgt atgtgttctt gcaccaggag gtgggtcacg    720

ccccacacca cacatcgtat actctgtccc tgcggcacgc acctgtctgg gtgcaccagg    780
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cagtctaagc ccatgtcacc tatgtgtaca catatgtgca cataccctact caggcacacc    840
agtgtgtgta cacggctgtc caggcacact gggcagtcca agcccacgcc tgcccagact    900
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gggtctgcat gggcagtcac ttcctggggg cctgcacccc ttaaggaggg tgaaggacgg    1140
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ccattttaca gacaacaaaa ctgaggctga gagagtaaca gcccggccag cacatggcag    1260
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gaggcggaag ctgatgtggc ccccactggg cgttctttca ctttctctcc tttgattcca    1380
cagtcctcag acctaggaat taaagaaacg tccgtagttt ccg    1423
```

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<210> 1498
<211> 1660
<212> DNA
<213> Homo sapiens


<400> 1498


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ggtcccccag actgtagtgc agtggcatga tctcggctcg ctgcagcctc aacctcctag    120
gctcaagtga tcctcctgcc ccagcctccc gagtagctga gactacaggc acgcaccacc    180
acgcctggct gattttttgta ttttttgtag agacggggga actcaccatg ttgcccaggt    240
tggtcttgaa ctcctggact ctcctgcctt ggcctcctaa agtgatggga ttacagggat    300
gagccagggc acaagtgttt caaaggcttt gttccaagat aaaaaagata aaacatctct    360
ccagtttctg aacagacaaa ccagaattca gtgtgatcaa gtggaagaaa ggcaaaaaga    420
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cctccacagc agccgcggca gcaggggcag cagctggagc agcagcccac ccggtagcac   1020

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tccttgagac ttcgggttaa gccggaaccc aaggtggctg ccagctgctt ttccatctct   1560

ctgccatggc ttctctccag gaaatcaccc tgctttcatg gaaattcccg agatgcaaaa   1620

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```

<210> 1499

<211> 2639

<212> DNA

<213> Homo sapiens

<400> 1499

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ggcataaggt ctgtttcttt gctgggtcat attttacagt gtgatctctt cactctgaaa    120

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tcaaaatccc ccgaaatctc taggtcccat gtaaacagta taaggaaag aacgtcatca     360

gttggtttgc ctagtgttat tccaaactct acacgccgtg tgagctttgc acctaacctg    420

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cctttaataa atgatgaatc accaaatttt cttaaacagg actcggtgaa atctattctt    600

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aactttcagc gacaattggc agaagctaaa gaagacaact gcaaagtcac aatcatgttg    780

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gcctctatgt tatgagagaa caaggatctc aatcaacaga gggtgcagaa gctggaagct    900
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gaagtggacc agtggcaggc caggatgctt gtcatggagg accagcacaa cagtgagatt    960

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caattggaaa gcaaagaact tgagcgacag aatttggaaa ccttcaaaga ccggatgact   1140

gaagagtcca aagtggaagc agaattgcat gctgaacgca tagaagctct aagaaagcag   1200

tttcaaaccg agagagaaac tacaaagaaa gtggcacaac gggaagtggc tgagctgaag   1260

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cgacagaaac ttgcagagct agaaaaaata ctagaaagta acaaggagaa aataaagaat   1380

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gaaaaagaat tgaagcaaat ggagctaatt aaggatcaat atcagaaaaa gaactatgaa   1920

cagtctttga gtatccagag atttgtgtgt gaaatgacta acctgcagaa agagatgcag   1980

atgttggcta agagccaata tgatgcctca gtgcggaata aacagcaaga gctgcaccta   2040

gaagcagagc ggaaaataag gcaggagcta gagaatcggt gccaggaatt ggaagaaact   2100

gtcagacacc tgaagaaatg taaagaggca acagagaata cgctgaaaga agccagtgtg   2160

gaatcagaac agataacagc taatctggaa gaagctcatc gctggtttaa gcacaggttt   2220

gatggtctac aacttgagct gacaaaaaac cggttgcaga ggccttctgg ggaagacagg   2280

tggcaggaaa aggaccaaga tgtaaaacat gatgtcatgt ccaaccaatc tgttctgcat   2340

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accccttttt ttgtcccttt tcacattttc cacccaataa atttgtgtta atttgttgt   2639
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<210> 1500

<211> 2175

<212> DNA

<213> Homo sapiens

<400> 1500

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cgcttgaacc tgggaggcag aggttgcagt gagctgagat cgtgccactg cactcaagcc  2040

tgggtgacag agcgaaactc cgtctcaaaa aaaaaagttt cttccttaca tgtatgtttc  2100
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<210> 1501
<211> 2101
<212> DNA
<213> Homo sapiens


<400> 1501
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agtcagctcc gagacacctg aagagccctc cagccctaac tactttactc agactaggtc  1860

cccaggcctt tgttcttgcc tcttctcgct gagcctttca cttctcggca gatgtgaccg  1920

attggtagct ccaccccaac tcccttctgc tgggtggaat gcaggagcta gctgcctcca  1980

actcactgtg acctcagaaa aatgccttta ttactcgggc ctcagtttcc tcgtctttaa  2040

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<210> 1502

<211> 1864

<212> DNA

<213> Homo sapiens

<400> 1502

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cctgagacaa gcaagctccc acacggtcaa ccccacaccg gagccgagaa ccggcctctc  300

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gaagaaacct actacagagg agaagaagcc tgctgcataa actcttaaat ttgattattc  1800

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tgag                                                                1864
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<210> 1503

<211> 1801

<212> DNA

<213> Homo sapiens

<400> 1503

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ccagggtctc ccagcaccag gttcctgttc tgagggaaaa acccaaaagg gtcaaaagca   1020

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aacacaaaga cgaaggttgg cagtcttgct cccattttgt agatgaggca accgaggttc   1140

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c                                                                    1801
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<210> 1504

<211> 2043

<212> DNA

<213> Homo sapiens

<400> 1504

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agg                                                                 2043
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<210> 1505

<211> 2082

<212> DNA

<213> Homo sapiens

<400> 1505

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<210> 1506

<211> 1941

<212> DNA

<213> Homo sapiens

<400> 1506

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<210> 1507

<211> 2546

<212> DNA

<213> Homo sapiens

<400> 1507

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ctggccaaga ctggtagcct acctctccaa acaactagat ggagtttttta aagattggcc   180

cccgtgtttg agggccttgg cagcaactgc cctgctagca caagaagtgg ataaactaac   240

tcttgggcaa aacctgaaca taaaggcctc ccatgctgtg gtgactttaa tgaataccaa   300

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gccctgcata actattgaag tttgcaacac cttgaacccc gccaccttac tcccggtacc   420

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gggtgtggat caaggattgg aacatagccc cgttgcggcc acagtggaaa ggaccccaga   1620

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gggtccacgc atggccaaag catgaggaaa ctcatcgtgg gactcatttt ccttaaattt    1860

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ctctaaaagg gacttgtgtg tataatgcca cccagtacaa ggaatgcatc ccaggaagtg    2040

accaacctga tgtgtgctat aacccgttag aactacttga tctccgttgg aaaacaggag    2100

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gacagtgaga actctcacta gtgaatgagg ttctcaaagg gggaaatgag gagcgaggcc    2220

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gccaaataaa gccaaatcct tccttc                                         2546
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<210> 1508

<211> 1732

<212> DNA

<213> Homo sapiens

<400> 1508

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ccaggctcct tctccccgtg gcagagtact tctctggggt gcagctgccc ccacaccttt     240

cacccttgt gaccgagaag gaaggagatt acgttccacc tgagaagctg aagctgctgg     300

ctctgcagcg gggagaggac ccaggtgagc gggatgggac tgggctggcc ttgacccctg     360

ggcccacgct ggctgtttcc cttagctgcc aaggtggaaa gctccaggga acaggcagta     420

ggagcagaaa gcccctttgaa gtcacctgta gaataaggct taggagaagg gacatctacc     480

tcctggggtc aggtgttatt tgacgttcag gatgactgag cagaagaaca tgctgcattg     540

tcatcagagt ttacattgga ggcgacagag ctcaggactg ggggtcttgg aatttcctct     600

gatggcagct gggctgtggg gaggtgcaag agagggccac aattgggaca tccctgaact     660

gcccatggct aaagacggca gggtcagaga ggatggggcc tgggcctgtt gtcaccctgc     720
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<210> 1509

<211> 2129

<212> DNA

<213> Homo sapiens

<400> 1509

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tgccagcttg tctcttgagt tgtctctttc ctattctcag cttccacccc caaacacatt   240

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cagtcctaac tgaagtcagc actgaactgg gcaaaggact caagaaaaaa agtttccttc   660
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ctcctcgatg tgttgctcaa agcactgcgt gagaccacac ggagcagtat ctaagcattg   720

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atgctttcct ccctcagccc cctctagggt caccgaacag ctgtaaatac aagctgacca   840

ccctcaagga gctgggatgg agggaggttt tctccagtct ccagttctgc ctttgcacct   900

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tcgagaacta tctaggaaag gacgaggacc aaattaccaa gcctttggat ctaatccatg   1140

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gacaaacaga cccagagaca cacagagggg aaggccatca gaagacgagg cagctattgg   1980

agttacgcag ccagagccaa gggatgccag aagccaacag aagctggagg agtcaaggaa   2040

ggattctccc ctagaaccct ggaagggact gtggccctgc tgacgctttc tgggctccaa   2100

aactgagtga gaataaattt ctgttgttt                                     2129
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<210> 1510

<211> 2233

<212> DNA

<213> Homo sapiens

<400> 1510

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cagccagcct cacctgtgcg gctgggagga ctcacagaaa ccctctgtac ccagtcatgg   180
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gccaaagaca ccgtcatgca agggggtgaa ggctccacac tcgtcccggc cccgggcgtg    240

gaagcaggac ctcgagcagt ctctggcagc agcctatgtg ccggtcgttg tggactctaa    300

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gaaccccttc tacactttgc agaagcctac ctgtggctac ctgtaccgcc gggacactga    420

ccacacccgc aagcgctttg atgtgcctcc tgccaacttg gtcttgtggc gctcctaggc    480

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atttactgag cgcctactat gtactaatgc tagatgttag atgtacaaag aagacagttt   2160

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<210> 1511

<211> 5069

<212> DNA

<213> Homo sapiens

<400> 1511

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cagaaaacat tctcacagtg atgagagatg ccggaattga gcctggtcca gacacatacc   840

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tggagaagat gaatgtaaaa attcctgaaa atatctacag aggcattcgt aatctcctgg  1920

aaagctacca tgttcctgaa ttgattaagg atgctcactt gttggttgag agtaagaatt  1980

tagactttca aaaaactgtg caacttacat catctgaatt ggagtccaca cttgaaacac  2040

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cagaagagaa tatgcaaaaa gcccttgaat tgagagcaaa atatgaatcc gacatggtta  2160

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<212> DNA

<213> Homo sapiens

<400> 1512

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

<400> 1543

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<212> DNA

<213> Homo sapiens

<400> 1562

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<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<400> 1568

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<211> 5302

<212> DNA

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<400> 1573

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<211> 4121

<212> DNA

<213> Homo sapiens

<400> 1574

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<212> DNA

<213> Homo sapiens

<400> 1579

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<210> 1580

<211> 3489

<212> DNA

<213> Homo sapiens

<400> 1580

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<211> 3526

<212> DNA

<213> Homo sapiens

<400> 1581

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<210> 1582

<211> 4989

<212> DNA

<213> Homo sapiens

<400> 1582

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<212> DNA

<213> Homo sapiens

<400> 1583

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<211> 4598

<212> DNA

<213> Homo sapiens

<400> 1584

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<212> DNA

<213> Homo sapiens

<400> 1585

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<210> 1589

<211> 4038

<212> DNA

<213> Homo sapiens

<400> 1589

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<210> 1590

<211> 5633

<212> DNA

<213> Homo sapiens

<400> 1590

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<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

<400> 1597

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<400> 1598

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<212> DNA

<213> Homo sapiens

<400> 1599

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<211> 3447

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<400> 1601

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<211> 4087

<212> DNA

<213> Homo sapiens

<400> 1602

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<213> Homo sapiens

<400> 1603

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<211> 3619

<212> DNA

<213> Homo sapiens

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gacagctaca gtaggaaagc cacagaatat aaatgatact tccttaaatg gaaatcaggt   660
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<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA

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<212> DNA

<213> Homo sapiens

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<212> DNA

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<400> 1615

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<212> DNA

<213> Homo sapiens

<400> 1620

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<211> 3680

<212> DNA

<213> Homo sapiens

<400> 1621

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<211> 4348

<212> DNA

<213> Homo sapiens

<400> 1622

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<211> 4765

<212> DNA

<213> Homo sapiens

<400> 1623

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<211> 3696

<212> DNA

<213> Homo sapiens

<400> 1634

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<211> 4747

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<400> 1637

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<212> DNA

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<212> DNA
<213> Homo sapiens

<400> 1644

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<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

<400> 1651

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<212> DNA

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<211> 4366

<212> DNA

<213> Homo sapiens

<400> 1653

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<212> DNA

<213> Homo sapiens

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<400> 1657

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<212> DNA
<213> Homo sapiens

<400> 1658

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<212> DNA

<213> Homo sapiens

<400> 1659

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<210> 1661

<211> 5237

<212> DNA

<213> Homo sapiens

<400> 1661

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<211> 3373

<212> DNA

<213> Homo sapiens

<400> 1662

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<211> 5094

<212> DNA

<213> Homo sapiens

<400> 1663

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<210> 1668

<211> 3188

<212> DNA

<213> Homo sapiens

<400> 1668

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<210> 1669

<211> 3300

<212> DNA

<213> Homo sapiens

<400> 1669

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<211> 3218

<212> DNA

<213> Homo sapiens

<400> 1670

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<211> 3053

<212> DNA

<213> Homo sapiens

<400> 1671

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<211> 3000

<212> DNA

<213> Homo sapiens

<400> 1672

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<211> 3331
<212> DNA
<213> Homo sapiens

<400> 1673
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ggcagattaa caataagaga tctgaaaaga gaattgagca ccaaatattt aactatgaaa    300

atccagaatc acccaattcc acagatgctt aatatcacgg ggcgtggtac accaagcaat    360

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gcacaaacaa aagaacggat tgttccagag catgatgtct caaggatcat taaaaaacca    780

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tcagaattcc atgtgactcc agaaaaaaac aaacaatatc atgtatggtt tcaagaaaga   2220

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<211> 3366

<212> DNA

<213> Homo sapiens

<400> 1674

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<211> 2759
<212> DNA
<213> Homo sapiens

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<210> 1676

<211> 2974

<212> DNA

<213> Homo sapiens

<400> 1676

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<210> 1677

<211> 3259

<212> DNA

<213> Homo sapiens

<400> 1677

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<211> 3833

<212> DNA

<213> Homo sapiens

<400> 1678

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<211> 3419

<212> DNA

<213> Homo sapiens

<400> 1679

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<210> 1680

<211> 3030

<212> DNA

<213> Homo sapiens

<400> 1680

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<210> 1681

<211> 2927

<212> DNA

<213> Homo sapiens

<400> 1681

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<210> 1682

<211> 3026

<212> DNA

<213> Homo sapiens

<400> 1682

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<211> 4769

<212> DNA

<213> Homo sapiens

<400> 1683

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<210> 1684

<211> 3961

<212> DNA

<213> Homo sapiens

<400> 1684

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<210> 1685

<211> 3453

<212> DNA

<213> Homo sapiens

<400> 1685

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<210> 1686

<211> 3252

<212> DNA

<213> Homo sapiens

<400> 1686

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<400> 1691

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<212> DNA

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<400> 1697

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<212> DNA

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<212> DNA
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<213> Homo sapiens

<400> 1699

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<213> Homo sapiens

<400> 1703

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<210> 1704

<211> 3324

<212> DNA

<213> Homo sapiens

<400> 1704

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aactgttaaa aggaccataa aaccaccatc ccaccacaga attccaaata tcccatcgat    180

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ccggcagcat ccgtgtgacc tttacgacat gacctttctg tctccctgac gccgacgctc    300

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ctcccctgca attccgtttg gcgggagcag cttgcgggtc tcagggcacc tcggtggcac    480

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<210> 1705

<211> 3579

<212> DNA

<213> Homo sapiens

<400> 1705

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<210> 1706

<211> 3041

<212> DNA

<213> Homo sapiens

<400> 1706

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<212> DNA

<213> Homo sapiens

<400> 1710

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<211> 4115

<212> DNA

<213> Homo sapiens

<400> 1711

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<210> 1712

<211> 2863

<212> DNA

<213> Homo sapiens

<400> 1712

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<211> 1172
<212> DNA
<213> Homo sapiens

<400> 1713

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<211> 1439

<212> DNA

<213> Homo sapiens

<400> 1714

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<212> DNA

<213> Homo sapiens

<400> 1715

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<212> DNA

<213> Homo sapiens

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<211> 3893
<212> DNA
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<400> 1717

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ggcatcttca agaccctggc cctctcccca ggtgcaccag acatgatgca gcagccgcga   180
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<211> 3607

<212> DNA

<213> Homo sapiens

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<400> 1720

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<211> 3087

<212> DNA

<213> Homo sapiens

<400> 1721

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<212> DNA

<213> Homo sapiens

<400> 1731

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<212> DNA

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<212> DNA

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<212> DNA

<213> Homo sapiens

<400> 1736

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<212> DNA

<213> Homo sapiens

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<212> DNA

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<400> 1748

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<212> DNA

<213> Homo sapiens

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<211> 1039

<212> DNA

<213> Homo sapiens

<400> 1750

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<211> 3886

<212> DNA

<213> Homo sapiens

<400> 1751

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<212> DNA

<213> Homo sapiens

<400> 1752

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<211> 3515

<212> DNA

<213> Homo sapiens

<400> 1753

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<211> 3645

<212> DNA

<213> Homo sapiens

<400> 1754

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<210> 1755

<211> 3980

<212> DNA

<213> Homo sapiens

<400> 1755

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<210> 1756

<211> 3753

<212> DNA

<213> Homo sapiens

<400> 1756

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<211> 3282

<212> DNA

<213> Homo sapiens

<400> 1757

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<211> 3294

<212> DNA

<213> Homo sapiens

<400> 1758

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<211> 3460

<212> DNA

<213> Homo sapiens

<400> 1759

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<212> DNA

<213> Homo sapiens

<400> 1760

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<211> 3472

<212> DNA

<213> Homo sapiens

<400> 1761

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<211> 3547

<212> DNA

<213> Homo sapiens

<400> 1762

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<211> 2908

<212> DNA

<213> Homo sapiens

<400> 1763

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gatacccttc aacctacaac agcccttggt gagtgtccac aacgctaatg aggtgagagt   1980

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<210> 1764

<211> 4015

<212> DNA

<213> Homo sapiens

<400> 1764

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ttcaaaaacc tgtttcattc ttatgtatcc tgtggacttg atgaaatctt acatgacttc    480
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<210> 1765

<211> 3292

<212> DNA

<213> Homo sapiens

<400> 1765

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gtaaatgggc attatcaaag attgttgatg gggttgtaat tagtataatc ccttttgagg   180

tcacttgggt agtacctatc aaaataaatg tgcatgttat ccagcaatcc catatctaga   240
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<210> 1766

<211> 3959

<212> DNA

<213> Homo sapiens

<400> 1766

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<210> 1767

<211> 3554

<212> DNA

<213> Homo sapiens

<400> 1767

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ccccaaaagt ggtggcagta gagttcccac aagggagtgc cccacaccat cctgagatgg    660
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<212> DNA

<213> Homo sapiens

<400> 1768

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<210> 1769

<211> 3951

<212> DNA

<213> Homo sapiens

<400> 1769

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<212> DNA

<213> Homo sapiens

<400> 1770

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<210> 1771

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<212> DNA

<213> Homo sapiens

<400> 1771

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<210> 1772

<211> 2950

<212> DNA

<213> Homo sapiens

<400> 1772

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<210> 1773

<211> 3161

<212> DNA

<213> Homo sapiens

<400> 1773

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<210> 1774

<211> 3071

<212> DNA

<213> Homo sapiens

<400> 1774

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<210> 1775

<211> 2919

<212> DNA

<213> Homo sapiens

<400> 1775

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<210> 1776

<211> 4118

<212> DNA

<213> Homo sapiens

<400> 1776

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<210> 1777

<211> 2985

<212> DNA

<213> Homo sapiens

<400> 1777

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<211> 3686

<212> DNA

<213> Homo sapiens

<400> 1778

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<400> 1788

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<211> 2978

<212> DNA

<213> Homo sapiens

<400> 1789

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<211> 2400

<212> DNA

<213> Homo sapiens

<400> 1790

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<400> 1791

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<210> 1792

<211> 1955

<212> DNA

<213> Homo sapiens

<400> 1792

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<211> 2118

<212> DNA

<213> Homo sapiens

<400> 1793

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<210> 1794

<211> 3048

<212> DNA

<213> Homo sapiens

<400> 1794

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<210> 1795

<211> 3013

<212> DNA

<213> Homo sapiens

<400> 1795

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<211> 1810

<212> DNA

<213> Homo sapiens

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<211> 2283
<212> DNA
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<213> Homo sapiens

<400> 1797

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<210> 1798

<211> 1233

<212> DNA

<213> Homo sapiens

<400> 1798

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<210> 1799
<211> 1887
<212> DNA
<213> Homo sapiens

<400> 1799

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cctaggtcat attgttatca actgaataag atatgaaaaa gtttggtcct atttctgcct    180

caacaccata cttactgttg acatttattg tatttttctg gactgactta atagtttaaa    240

tatcaagata aggtataatt ctgaagccat aactctgtgg tagttttttt gtcagatacg    300

gttatctttg gggttattat agcagttgag ttgtatcatt ctatttgctt ctaaatctga    360

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<210> 1800

<211> 2238

<212> DNA

<213> Homo sapiens

<400> 1800

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<211> 2374

<212> DNA

<213> Homo sapiens

<400> 1801

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<211> 1994
<212> DNA
<213> Homo sapiens

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<210> 1803

<211> 2394

<212> DNA

<213> Homo sapiens

<400> 1803

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<210> 1804

<211> 2031

<212> DNA

<213> Homo sapiens

<400> 1804

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<210> 1805

<211> 2076

<212> DNA

<213> Homo sapiens

<400> 1805

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<210> 1806

<211> 2202

<212> DNA

<213> Homo sapiens

<400> 1806

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<210> 1807
<211> 2422
<212> DNA

<213> Homo sapiens

<400> 1807

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<210> 1808

<211> 2074

<212> DNA

<213> Homo sapiens

<400> 1808

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<400> 1809

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<211> 3135

<212> DNA

<213> Homo sapiens

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agtctggaaa taaacaaata ttttgtgtgt gattgtttct gaaactgcag acaggtattt   240

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<211> 1793

<212> DNA

<213> Homo sapiens

<400> 1811

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<210> 1812

<211> 2385

<212> DNA

<213> Homo sapiens

<400> 1812

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<211> 1620

<212> DNA

<213> Homo sapiens

<400> 1813

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<211> 2274

<212> DNA

<213> Homo sapiens

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<211> 2238

<212> DNA

<213> Homo sapiens

<400> 1815

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<211> 1745

<212> DNA

<213> Homo sapiens

<400> 1817

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<212> DNA
<213> Homo sapiens

<400> 1818

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<211> 2485

<212> DNA

<213> Homo sapiens

<400> 1819

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<211> 2840

<212> DNA

<213> Homo sapiens

<400> 1820

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<211> 1730

<212> DNA

<213> Homo sapiens

<400> 1822

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<211> 2214

<212> DNA

<213> Homo sapiens

<400> 1823

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<211> 2081

<212> DNA

<213> Homo sapiens

<400> 1824

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<211> 2033

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<211> 1959

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<400> 1827

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<212> DNA

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<211> 2650

<212> DNA

<213> Homo sapiens

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aaccagttcc acaaggttac tgtatacata gcctgagttt aaaaggctgt gcccacttca 2580

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<210> 1832

<211> 1963

<212> DNA

<213> Homo sapiens

<400> 1832

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aagaccataa agcccgaaac aataaattcc tgttagagaa aactgtgtgc agatgctgtg  240

agacaatcaa ggaaatcatg aaagagattg tggatgtgac aagggtgagg aatgaaggat  300

ttcaagataa gaatcttgga gaaattcaac agctaatagg taccacaaca gaggaattaa  360

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agatagaagc agcagtgcca gaaaacaaga tgacattaga caatctggca gcagagttcc  480

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<210> 1833

<211> 2475

<212> DNA

<213> Homo sapiens

<400> 1833

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ccactgtcct ctgcttcgcc agtgatgggg ctgaggtgga gccggagact ctggcccgtc  180

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<210> 1834

<211> 2342

<212> DNA

<213> Homo sapiens

<400> 1834

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ac 2342

<210> 1835

<211> 2169

<212> DNA

<213> Homo sapiens

<400> 1835

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taccagaaga ccaatgccgt gtctgagatt aaaagggttg gtaaagacag cttctgggcc 180

aaagcagaga tggtcacact gaggctcgga aggaggagga gaaccgtcgg ctggaggaaa 240

agcggcgggc cgaggaggca cagcggcagc tggagcagga gcgccgggag cgtgagctgc 300

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ccagtgtgtg cctcaactga ttctgacttc aggaaaagta acacagagtg gccttggcct   2100

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<210> 1836

<211> 2288

<212> DNA

<213> Homo sapiens

<400> 1836

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ttttgattct ctctattgat aggaatcaag aagagaacac attcaccaga ttgataatca   360

catataaagt gctacaggct gtgctgatgt gttccagtga agacatatct ggcacagcag   420

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<210> 1837

<211> 2086

<212> DNA

<213> Homo sapiens

<400> 1837

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ttactggtgt gattactgtc tcctgactgg accctgactg ctatagaatt gacggagtct  180
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cctaccatgc tctgcttttt ttctgagaca gagttttgct cttgttgccc aaggagtgca   360

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cccagcacaa aagcccttac cagaagccaa gcagatgctg atgccacacc ccttggactt  2040

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<210> 1838

<211> 1807

<212> DNA

<213> Homo sapiens

<400> 1838

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atgagtaggt gatttcagaa acagaactca cttttgttgt ttggtcttaa aattaggaac     180

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<210> 1839

<211> 1779

<212> DNA

<213> Homo sapiens

<400> 1839

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gacttaaata taagacctga aactataaaa gccctggaag gtaaaactct tttggatatt   300

ggcctagaca aagagtttat ggctaattcc ccaaaagcaa atgcaactaa atcaaaaata   360

gacaaatgga acttaagtta aaaagcctct gcacagcaaa agaaataatc aacaaaataa   420

acaggcaatc tacagaatgg gagaaaacat ttgcaaatta tgcctctgat aataaaggac   480

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ccaaggtcat gaacagacac ttctgaaaag aagacatgta agtggccaac aaacatgaag   600

aaatgctcaa catcattaat cagagaaatg caaatcaaaa ccacaatgag atatcatctt   660

acacatgata ataattgtca gaatagcaat tattaaaaag tcaagaaaca acagttgttg   720

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tcctaagtga aataagtcag aaacagaaaa taaatactg catgttctta taagtgggaa  1140

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aatacaaaaa attagccggg cgtggtggcg ggcgcctgta gtcccagcta ctcgggaggc  1680
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tgaggcagga gaacggcgtg aacccggagg cggagcttgc agtgagccga gatgatgccg   1740

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<210> 1840

<211> 1910

<212> DNA

<213> Homo sapiens

<400> 1840

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tcaatgagaa atttaaaaat aaaagttgca gggcctggct tttattgcga gagagactaa   180

tgggcagcca aggccaagat cttcaagact aggacatcta ggcttgactg tcacctgctt   240

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tccacccta accccttag tgtctttgc tttgcaaaac tggactttg ctttggactt   840

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tgagtggcga ttttagttt tgttttgaaa aaataaacag attaacctgc    1910
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<210> 1841

<211> 2402

<212> DNA

<213> Homo sapiens

<400> 1841

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agggcggttc gcgggtgctg tcagagctgg gccggggccc ctaggcaggg tagccgggtc    600

gtagaggcgg gggccggtcg cggtcggtgg agcgggatga ggatgtagga ggggcggacg    660

tggcggaagc cgcggggtcc gcggggtcgg tgcctctagg gagccaggga ggcctttccc    720

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agtaaaactc ctagaaccag ttcctgtttc tgtaacaaga tgttccttta gagtcaatga   1560

gaacacacac aacctacaaa ttcatgcagg ggacatcctg aagttcttga aaaagaaaaa   1620

acctgaagat gccttctgtg ttgtgggaat aacaatgatt gatctttacc caagagactc   1680

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acactgccag tggcttgcat gcctcatgca aggctccaac cacttggaag aagctgaccg   1980

gcgccctcta aacctttgcc ctatctgttt gcacaagttg cagtgtgctg ttggcttcag   2040

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tggagcaact ccagaacaca gtcacgagga taatgggaat ttaccgaaac ccgtggaagc   2160

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atacttcatt ggaataaact actgatcttg tgctgtgtca aagtaacaga ctagaacctt   2340

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<210> 1842

<211> 2211

<212> DNA

<213> Homo sapiens

<400> 1842

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<210> 1843

<211> 1919

<212> DNA

<213> Homo sapiens

<400> 1843

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agagggcgct ggggagccct gcagttccgc agcacgggga acccggagaa aagcagcccc   180

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cgtgtgtggt ggagggggtg ggacgacaca ggtgtcctga ggggaggagc cgggaggaag   360

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<211> 2331

<212> DNA

<213> Homo sapiens

<400> 1844

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<212> DNA

<213> Homo sapiens

<400> 1845

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<400> 1846

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<210> 1847

<211> 2874

<212> DNA

<213> Homo sapiens

<400> 1847

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<211> 2645

<212> DNA

<213> Homo sapiens

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atataccttta aaatgcaatc atttaaaaca ctaaggatta catttatggt ggaactttgg  960
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ttactagatg aaacagactt gcaacatagt ctgcatgaat gcaaaataag ccatctacag    2580

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<210> 1849

<211> 3009

<212> DNA

<213> Homo sapiens

<400> 1849

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ttaaaatttt gtccttgtgt gtgtggtgct tgtgtctctg tcctgaggtt tggggtgctt     240

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cccaatgggc tctcctgcct tccttctctc tctctttgta agtattgaat ggctgcaagg     360

ggtggtgttg ccacaaagat tctcagctct taatgggggt gggtggcaga gggaaatcca     420

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gagcaggagc tgctagctgg cttttaaca gtgtttctca taatggcagt actcagcaaa     720

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tcttattggc ctacaacagt gactctggat cccccaagca aagcatttgg ctggctattg    2040
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<211> 2089
<212> DNA
<213> Homo sapiens


<400> 1850
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cagcaaagtt actgacagct gagagtaatg accagcagga agaagctttt taggagacag   1020

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<210> 1851

<211> 2908

<212> DNA

<213> Homo sapiens

<400> 1851

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ctgacatgga ggatcaagga tttcaaaagc tttgaatata aagaggtgtc agacttacat    180

cagagcctga gacttgacat gcctattttt gcactcgctc attttttcaaa tttcataggc    240
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tatcactatt tctcaaagat tatctggtct cttgatggca aatctacaat attgaaacct   420

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atgaccatga aagtacagca agtgattttc aagctgcaaa caaattttag caagcaaatg   720

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aatattctta tccatgctca tggataagaa gaatcaatat catgaaaatg gccatactgc   1020

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aattagaaaa aactacttta aatttcatac ggaaccaaaa aagagcctgc atagccaaga   1140

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aaccagacaa aaacaagcca tggggaaagg attccctatt taatacatgc tgatggaaaa   1380

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cagttaaaat ggcgatcatt aaaaagtcag gaaacaacag attctggaga gaatgtggag   1980

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ctttattgca gcactattca caatagcaaa gatttagaaa caacccaagt gcccatcaat   2220

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<210> 1852

<211> 1968

<212> DNA

<213> Homo sapiens

<400> 1852

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<210> 1853

<211> 2138

<212> DNA

<213> Homo sapiens

<400> 1853

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tgaaattata tcaagcactc tctcagacca cagtgaaata aaactggaaa tcaactccag   240

aaggaacctt caaaaccacg caaatacacg aaaattaaat aacctgctcc tgaatgagca   300

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tgacacaacc tatcgaacct ctgggataca gcaaaggtgg tgctaagagg aaagttcaca   420

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ccaagatcag agcacaatac aattgaaaca acaacaacaa aaatgcaaaa gataaatgaa   600

acaaaaacta gttctttgaa aaggtaaata aaattgaaag accattagtg agattaacca   660

agaaaagaag agagaaaatc caaataacct aattaagaaa tgaaatggga gatattacaa   720

ctgacaccac agaaatacag aagatcattc aaggctattg tgaacccctt tatgcacata   780

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<210> 1854

<211> 2314

<212> DNA

<213> Homo sapiens

<400> 1854

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<210> 1855

<211> 2232

<212> DNA

<213> Homo sapiens

<400> 1855

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<210> 1856

<211> 2054

<212> DNA

<213> Homo sapiens

<400> 1856

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<210> 1857

<211> 2297

<212> DNA

<213> Homo sapiens


<400> 1857

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tttctcagta tctacaggag gccttacatc gggaacaaat gttggaacag aagttagcca      660

cgcttcagcg gctactagcc atcacccaag aggcttcaga taccagttgg caggctttaa      720

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<210> 1858

<211> 3706

<212> DNA

<213> Homo sapiens

<400> 1858

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<210> 1859

<211> 3243

<212> DNA

<213> Homo sapiens

<400> 1859

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gagtgatctt cccttcagcc tattctttct ctgtgtcccc attccaggga tggccccctt    240
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atcccttccc agccgcttct ctggtctcat ggtttttcact tcctctgtac aatccaactt   480

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<210> 1860

<211> 2182

<212> DNA

<213> Homo sapiens

<400> 1860

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gtctgtttgc atagcaagag tgacctttac tccagttccc aaaaagttcc tcatctccat    180

ctgagactac atcagcccag acttcattgt acatattact atcagtattt tggtcaaggc    240

cattcaacaa gtctttatga agttccaaac tttcctacat ctccctgtct tcttctgagc    300

cctccaaact gttccaacct ctgcctatta cccagttcca aagtcgcttc cacatatttg    360

gggatcttta cagcagcacc ccactcctgg taccaattta ctgtattaat atgttctcgt    420

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ccttatataa atgaggatcc agccgggcat ggtggctcaa ggctgtaatc ccacccagca   2100

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<210> 1861

<211> 2115

<212> DNA

<213> Homo sapiens

<400> 1861

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agaattattg agggcttcct ccagaatgtg ggtgatggag ttaaacttca gaagagcatc   180

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caactactca gaatgtgtcc tcctcatcta atgctcatct gtttaatggt gatgcctcgc  1980

gtacaggatc tggttacctg tgcagttgtg aatacccaga ggttgggcag atcagtgtct  2040

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<210> 1862

<211> 3887

<212> DNA

<213> Homo sapiens

<400> 1862

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tcagaagaag gctgacagta tggaggctaa aggtgtggag gaaccaggag gagatgagta   2040

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<210> 1863

<211> 2582

<212> DNA

<213> Homo sapiens

<400> 1863

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<211> 2202

<212> DNA

<213> Homo sapiens

<400> 1864

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<210> 1865

<211> 2134

<212> DNA

<213> Homo sapiens

<400> 1865

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<210> 1866

<211> 4293

<212> DNA

<213> Homo sapiens

<400> 1866

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<211> 3645

<212> DNA

<213> Homo sapiens

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<210> 1868

<211> 2234

<212> DNA

<213> Homo sapiens

<400> 1868

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<210> 1869

<211> 2060

<212> DNA

<213> Homo sapiens

<400> 1869

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<210> 1870
<211> 2849
<212> DNA
<213> Homo sapiens

<400> 1870

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gagaattcat actggagaaa aaccctattc ttgtaaggaa tgtgggaaaa acttcagccg    360
aagttcagct cttactaaac accagagaat tcatactcga aataaactct aggaaccgtg    420
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<210> 1871

<211> 2159

<212> DNA

<213> Homo sapiens

<400> 1871

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<210> 1872

<211> 1926

<212> DNA

<213> Homo sapiens

<400> 1872

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<210> 1873

<211> 2590

<212> DNA

<213> Homo sapiens

<400> 1873

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<400> 1874

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<211> 2253

<212> DNA

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<400> 1875

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<211> 2966

<212> DNA

<213> Homo sapiens

<400> 1876

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<210> 1877

<211> 2392

<212> DNA

<213> Homo sapiens

<400> 1877

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<212> DNA

<213> Homo sapiens

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<211> 2170

<212> DNA

<213> Homo sapiens

<400> 1879

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<210> 1880

<211> 1972

<212> DNA

<213> Homo sapiens

<400> 1880

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<210> 1881

<211> 2156

<212> DNA

<213> Homo sapiens

<400> 1881

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<210> 1882

<211> 2364

<212> DNA

<213> Homo sapiens

<400> 1882

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<210> 1883

<211> 2311

<212> DNA

<213> Homo sapiens

<400> 1883

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<210> 1884

<211> 2031

<212> DNA

<213> Homo sapiens

<400> 1884

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<210> 1885

<211> 2604

<212> DNA

<213> Homo sapiens

<400> 1885

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<210> 1886

<211> 2010

<212> DNA

<213> Homo sapiens

<400> 1886

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<210> 1887

<211> 2140

<212> DNA

<213> Homo sapiens

<400> 1887

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